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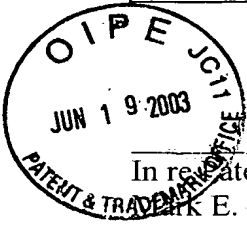
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Dated: June 19, 2003

Signature: *Richard Zimmermann*

(Richard Zimmermann)

Docket No.: 29915/6280M
(PATENT)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: *Mark E. Gurney, et al*

Application No.: 09/869,414

Group Art Unit: 1647

Filed: June 27, 2001

Examiner: Nichols, Christopher

For: ALZHEIMER'S DISEASE SECRETASE, APP
SUBSTRATES THEREFOR, AND USES
THEREFOR

**SECOND PRELIMINARY AMENDMENT WITH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents
Alexandria, VA 22313

RECEIVED

Dear Sir:

JUN 24 2003

Please amend the claims as follows:

TECH CENTER 1600/2900

AMENDMENT TO THE CLAIMS

Claims 1-150 (canceled).

151. (New) A purified polypeptide comprising an amino acid sequence that is at least 95% identical to a fragment of the Asp2 protein amino acid sequence of Figure 3 (SEQ ID NO: 4),

wherein said fragment is a continuous fragment of the Asp2 protein that includes the aspartyl protease active site tripeptides DTG and DSG shown in Figure 3 and exhibits aspartyl protease activity involved in processing APP into amyloid beta,

wherein said polypeptide lacks a transmembrane domain, and

wherein said polypeptide exhibits aspartyl protease activity involved in processing APP into amyloid beta.

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